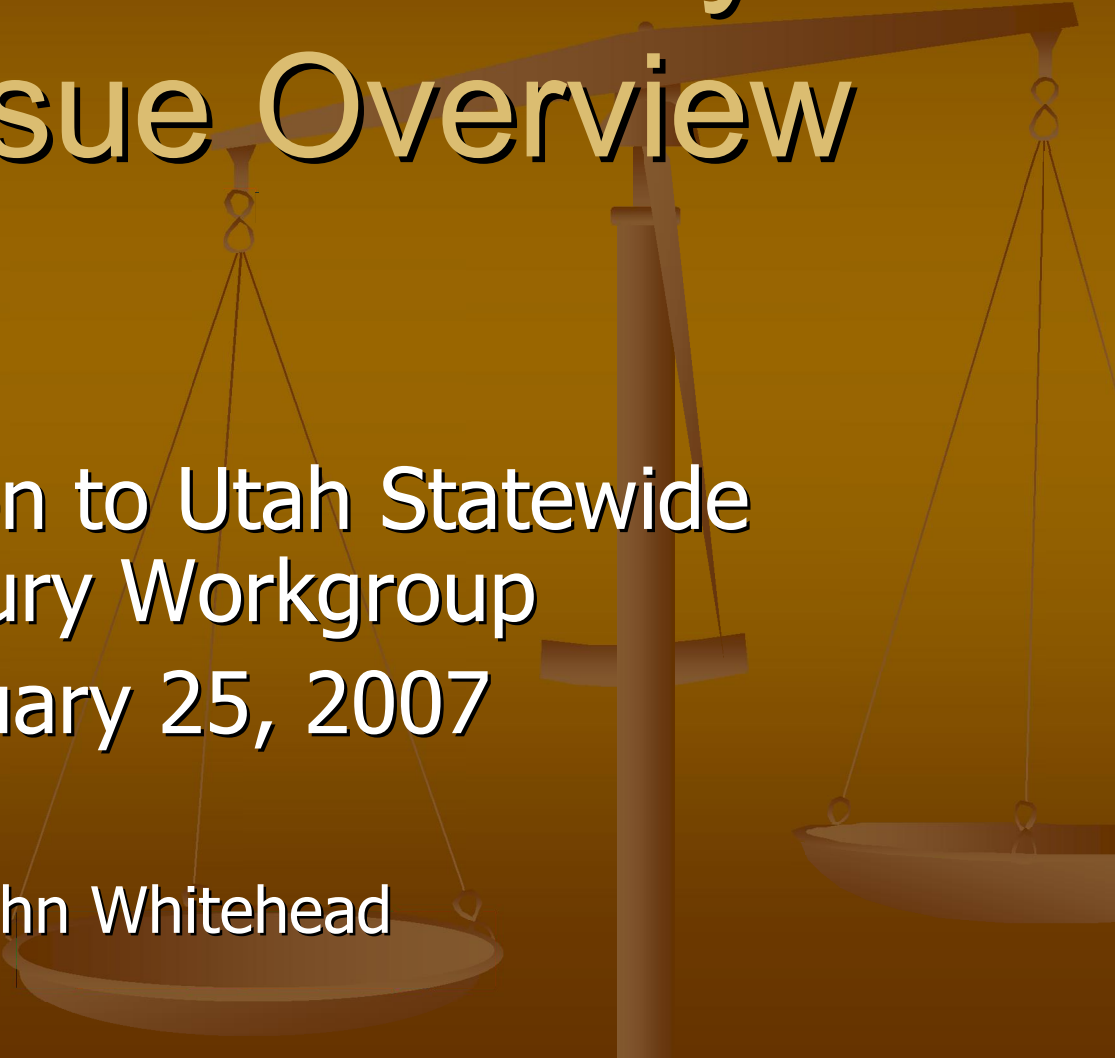


# 2005 – 2006 Mercury in Fish Tissue Overview



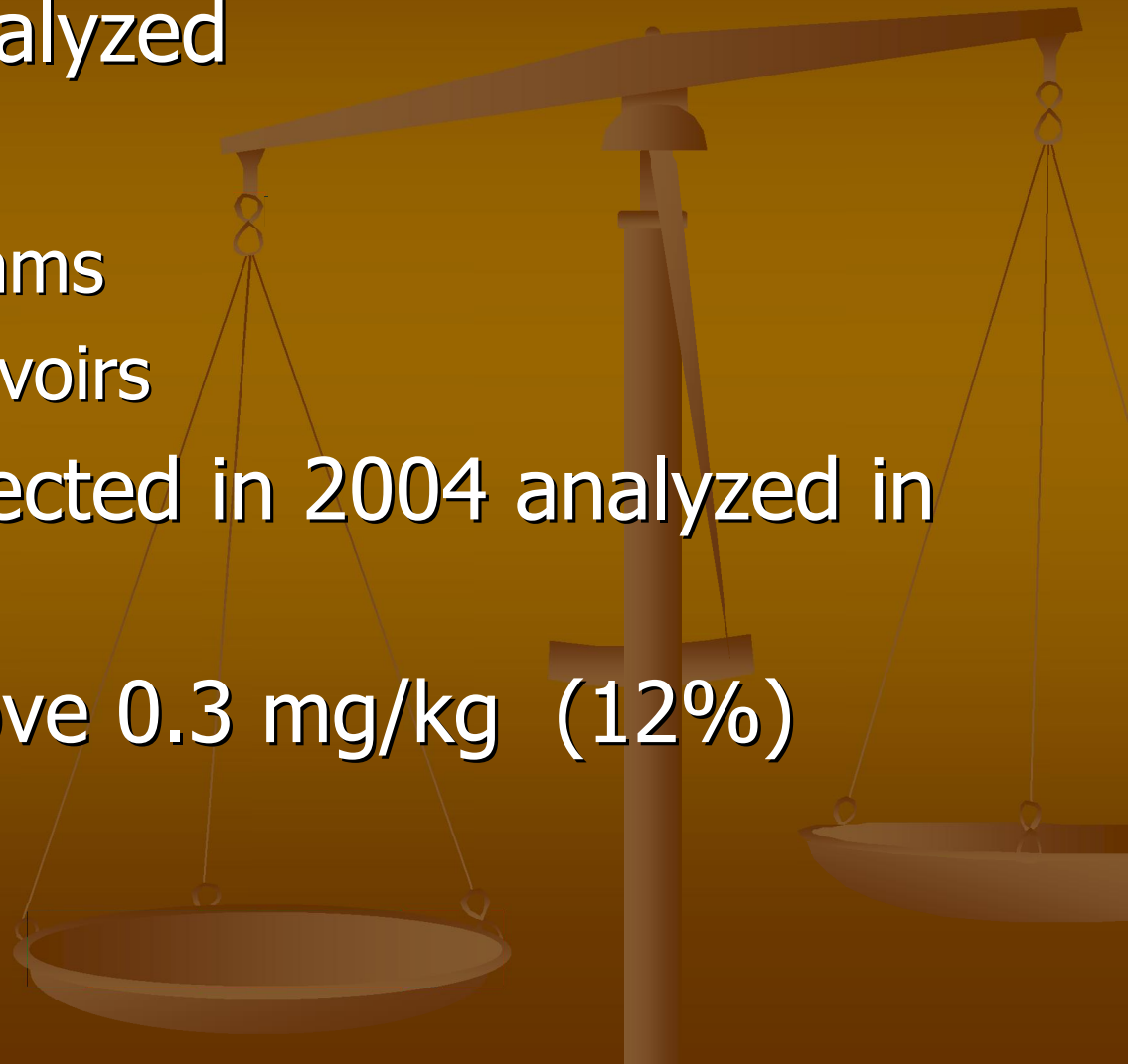
Presentation to Utah Statewide  
Mercury Workgroup  
January 25, 2007

John Whitehead

# Overview of Sampling Efforts

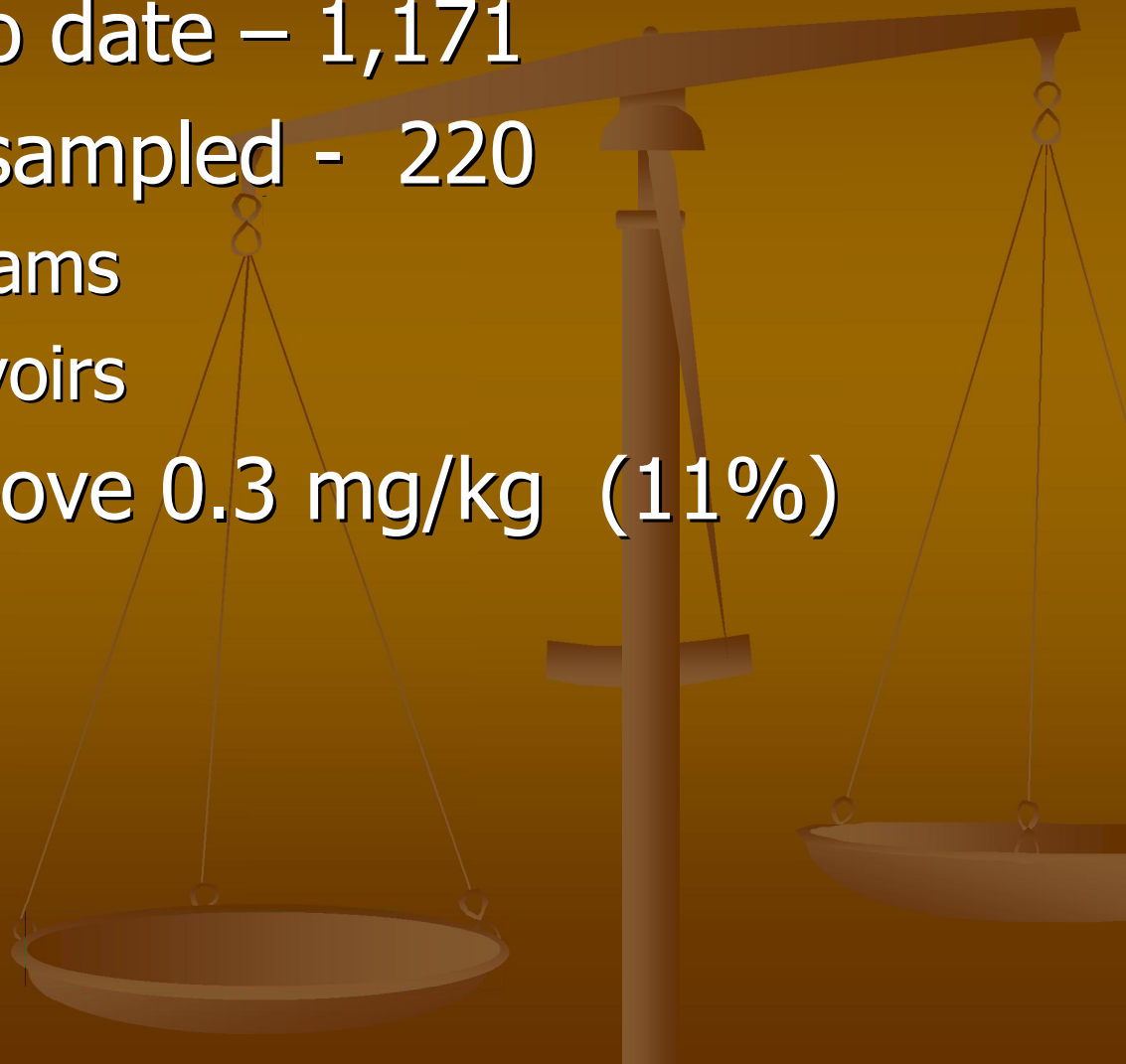
2005 – 2006 Data Set

- 821 samples analyzed
- 139 locations
  - 99 Rivers/streams
  - 40 Lakes/reservoirs
- 75 samples collected in 2004 analyzed in 2005
- 95 Samples above 0.3 mg/kg (12%)

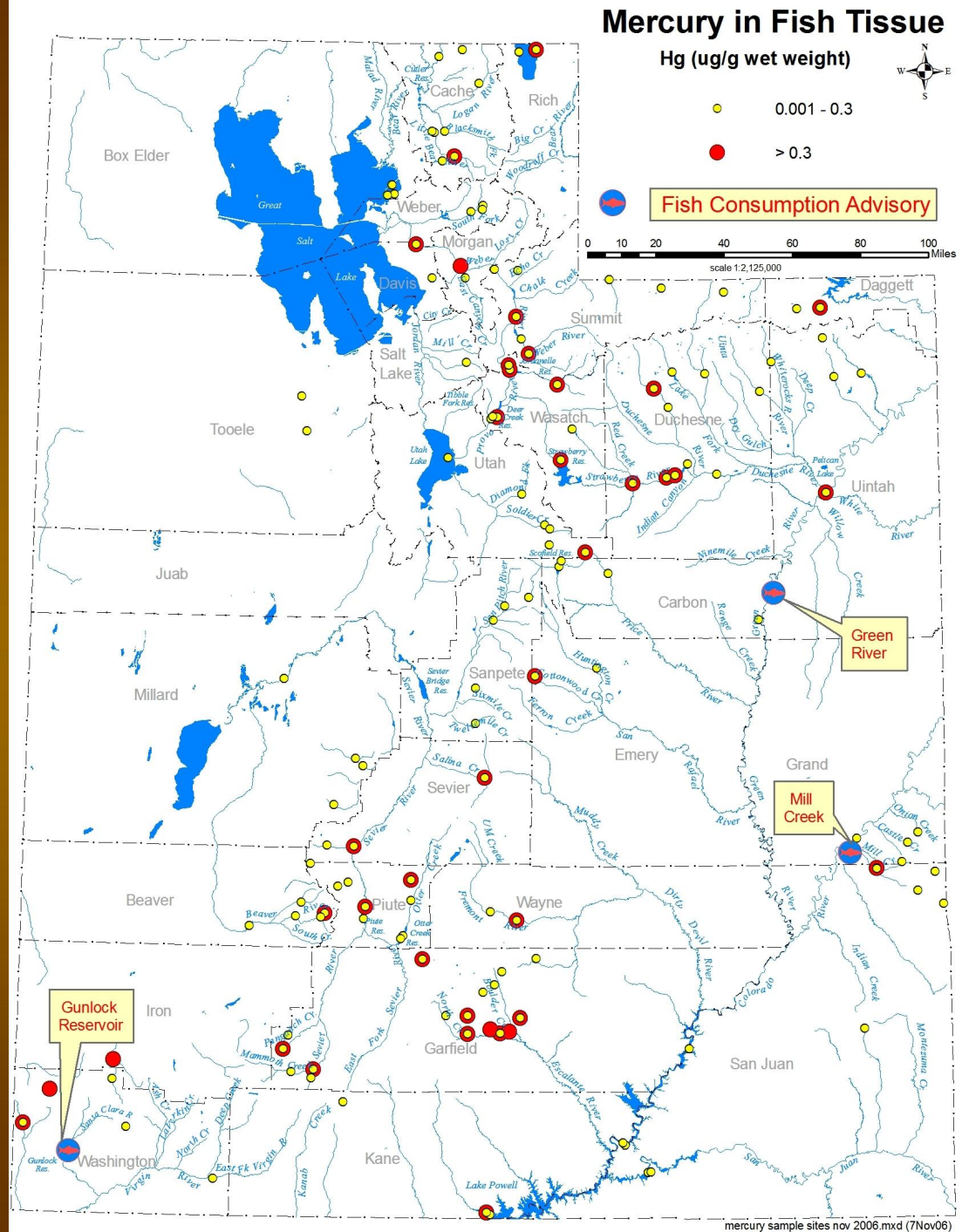


# Summary of All Data To Date

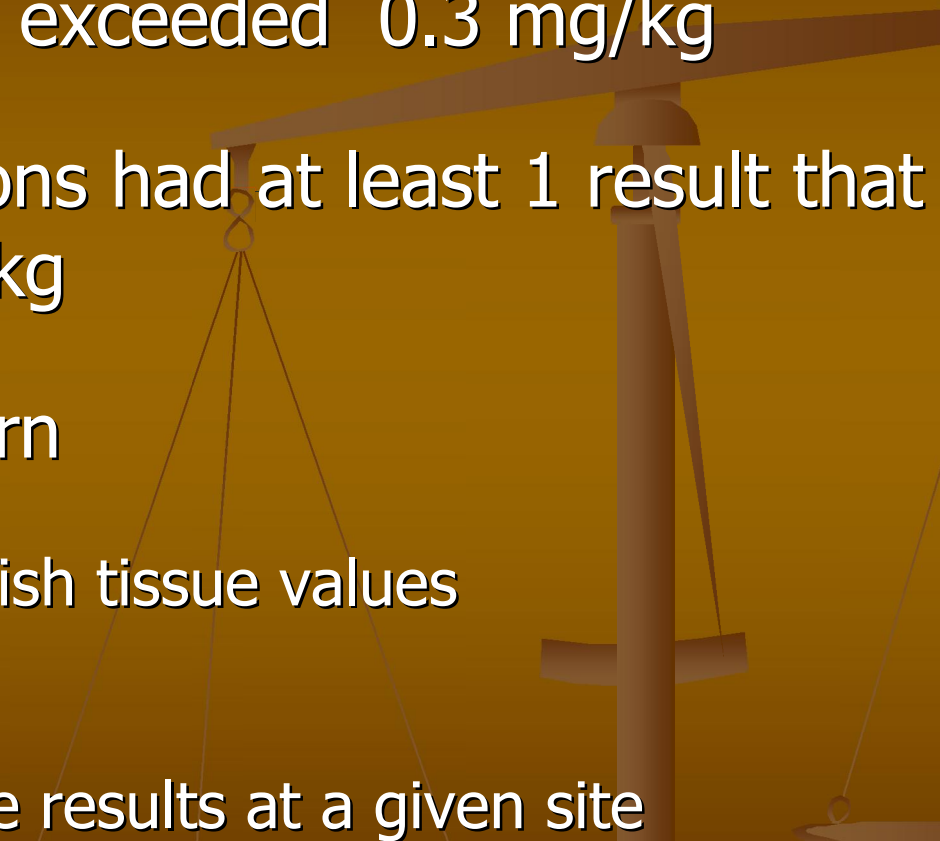
- Total samples to date – 1,171
- Total locations sampled - 220
  - 165 Rivers/streams
  - 54 Lakes/reservoirs
- 125 Samples above 0.3 mg/kg (11%)



# Sampling Locations All Years



# 2005 – 2006 Results Summary

- 95 of 821 samples exceeded 0.3 mg/kg
  - 45 different locations had at least 1 result that exceeded 0.3 mg/kg
  - 14 Areas of Concern
    - Average mercury fish tissue values
    - Sample size
    - Variation of sample results at a given site
- 

# Areas of Concern

2005 -2006  
Data Set

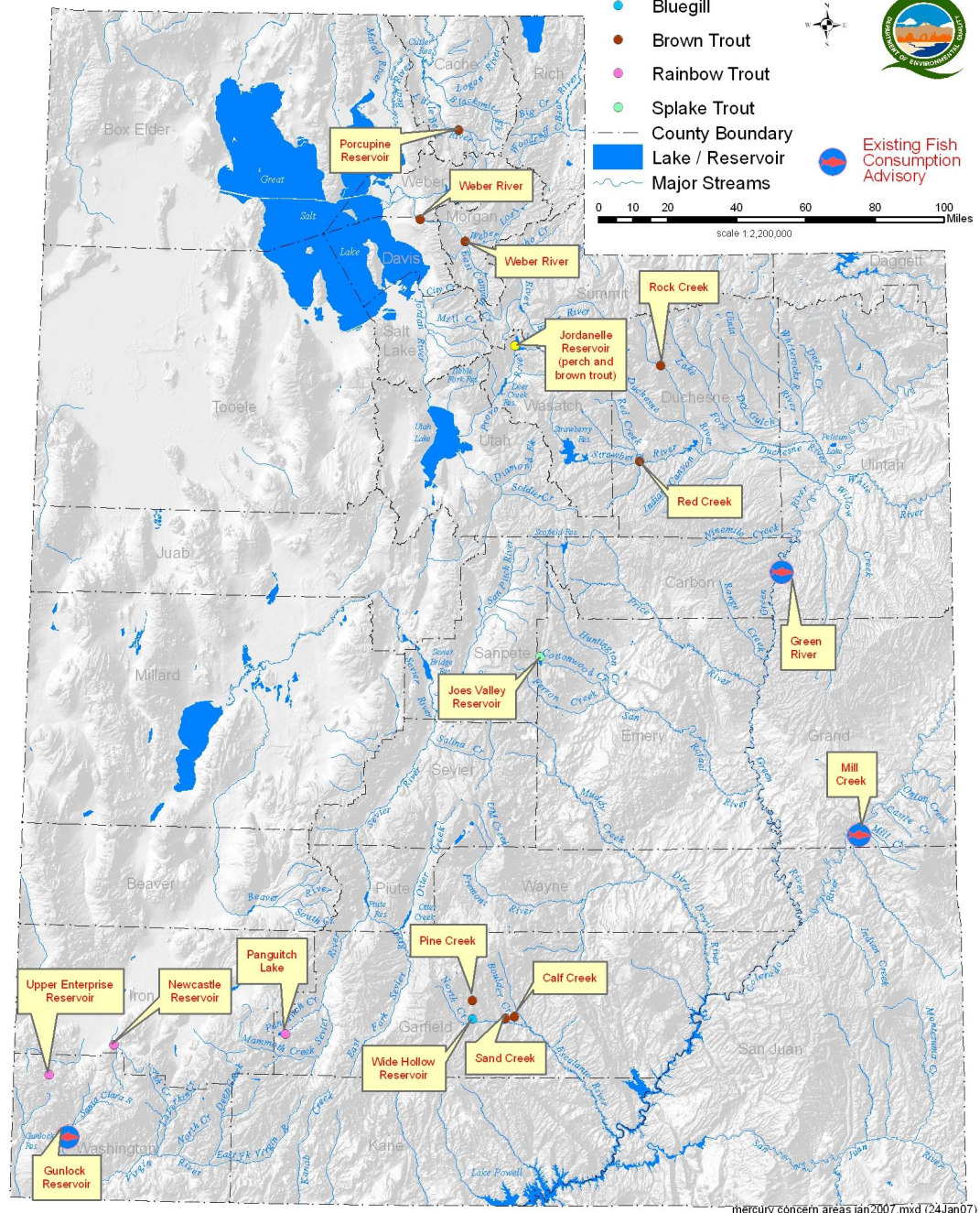
(Includes 3  
locations with  
prior Fish  
Consumption  
Advisories)

## Mercury in Fish Tissue


### Fish Species

- Yellow Perch
- Bluegill
- Brown Trout
- Rainbow Trout
- Splake Trout

U T A H



# Areas of Concern

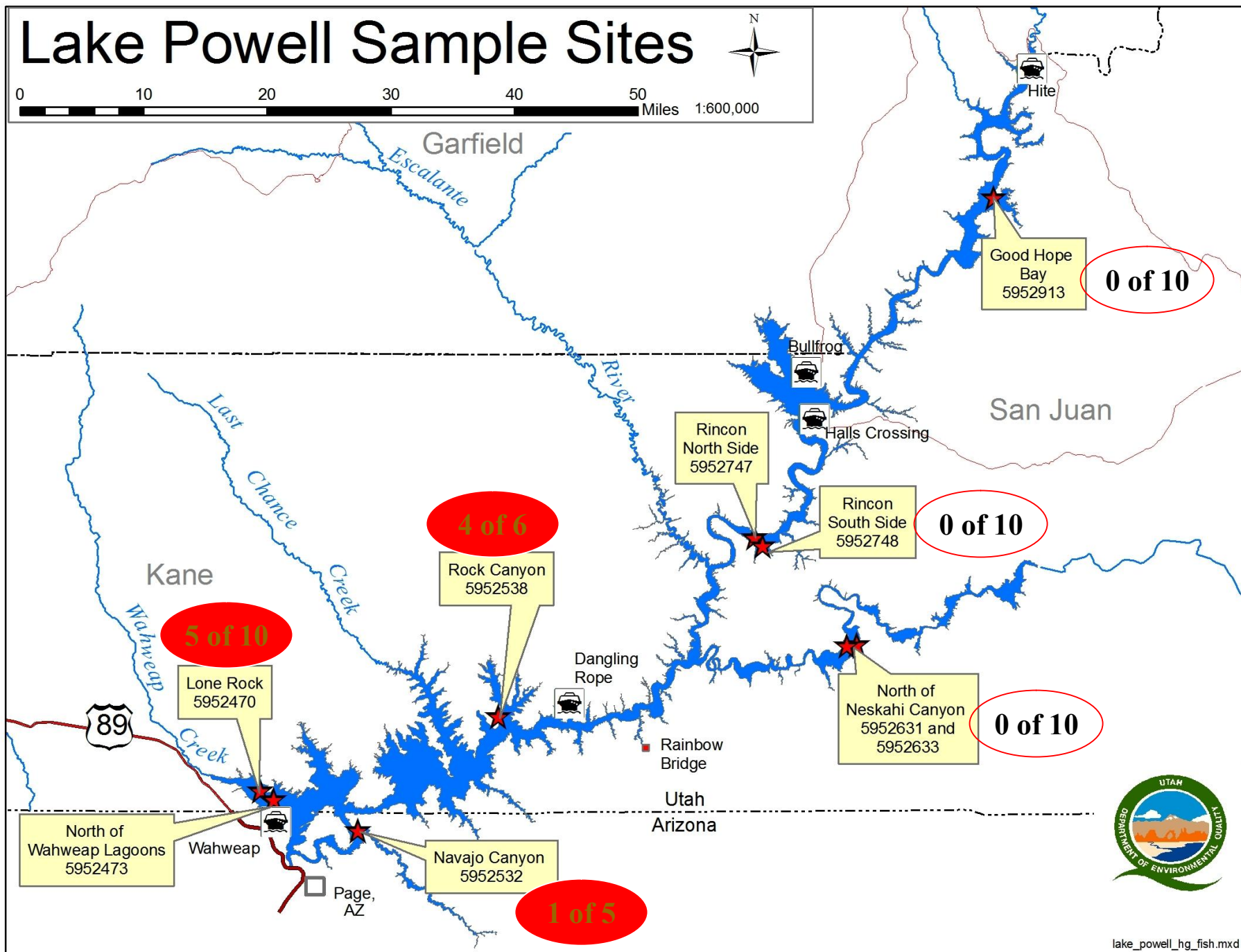


County	Site	Mean Hg	Fish Species
Cache	Porcupine Reservoir Near Dam	0.35	Brown Trout
Duchesne	Red CK 1mi above Strawberry River	0.35	Brown Trout
Duchesne	Rock CK bl Bridge @ Miners Gulch Campground	0.38	Brown Trout
Emery	Joes Valley Res North Arm	0.82	Splake Trout
Garfield	Calf CK above Campground	0.47	Brown Trout
Garfield	Panguitch Lake Shore Lakeview	0.32	Rainbow Trout
Garfield	Pine CK bl the Box @ USGS Station	0.39	Brown Trout
Garfield	Sand CK 2 mi above Escalante River	0.39	Brown Trout
Garfield	Wide Hollow Reservoir NW Shore	0.32	Bluegill
Iron	Newcastle Reservoir Above Dam 01	0.48	Rainbow Trout
Morgan	Weber R below Morgan Lagoons	0.44	Brown Trout
Wasatch	Jordanelle Reservoir West of Boat Ramp	0.56	Brown Trout
Wasatch	Jordanelle Reservoir West of Boat Ramp	0.31	Yellow Perch
Washington	Upper Enterprise Reservoir Above Dam	0.65	Rainbow Trout
Weber	Weber River below US-191	0.33	Brown Trout

# Lake Powell Sample Sites



0 10 20 30 40 50 Miles 1:600,000



# Next Steps

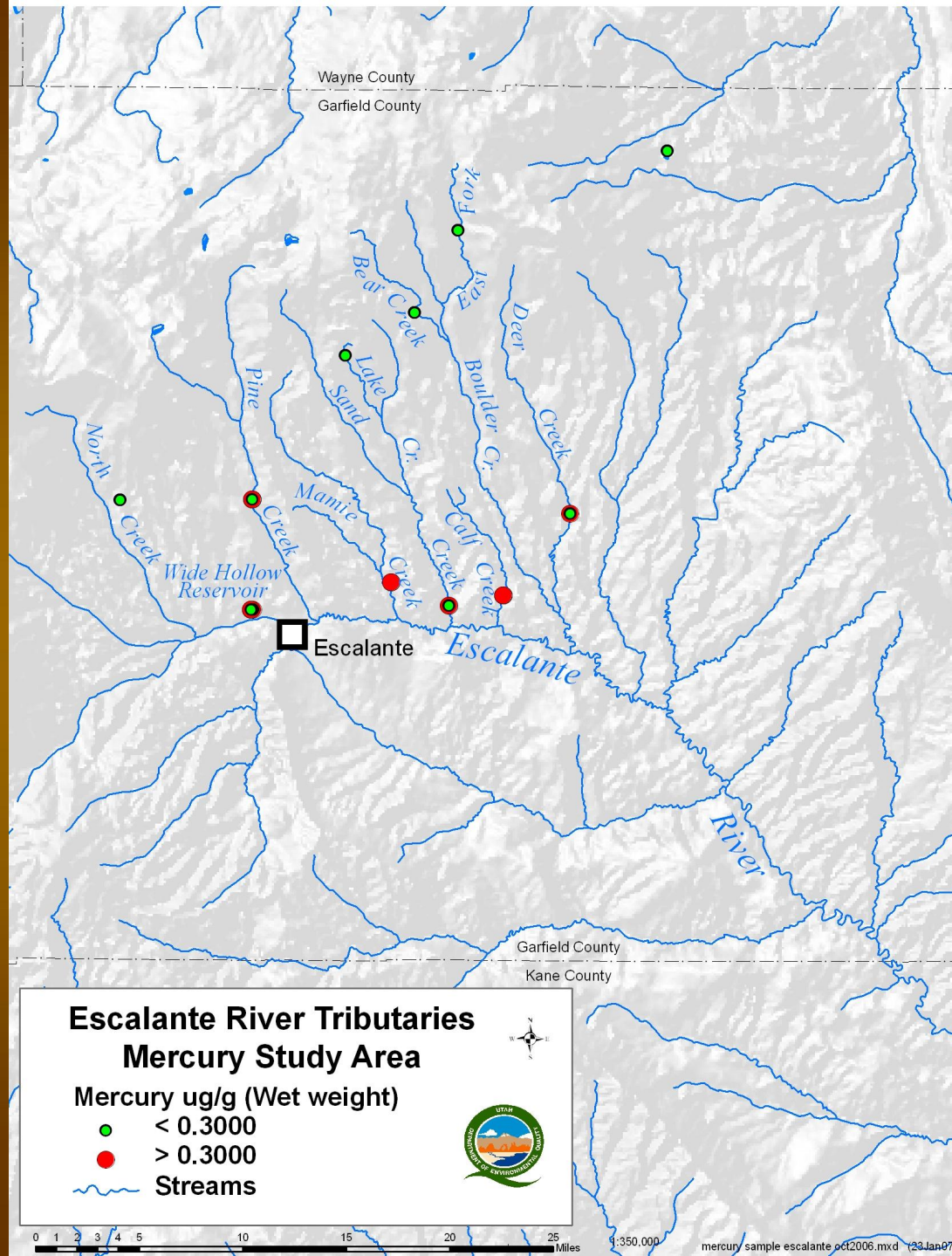
- Complete Human Health Assessment
- Issue Fish Consumption Advisories where appropriate
- Develop & Implement 2007 Fish Tissue Sampling Plan\*
- Start Source Assessment Work\*

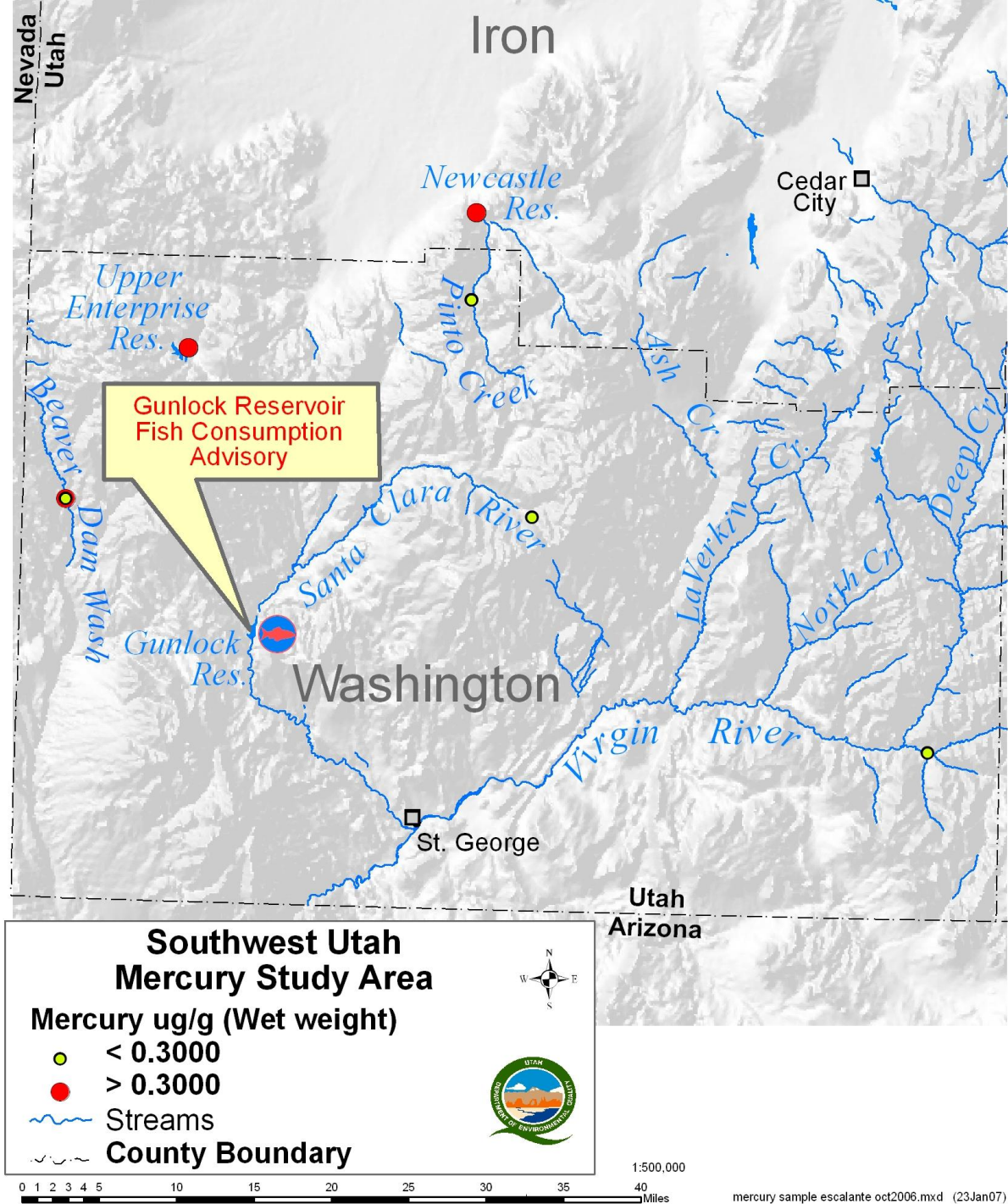
\* As Budget Allows

# Possible Sites for Source Assessment

- Escalante River Watershed
- Southwest Utah Reservoirs
- Others







# Thank You

- Division of Wildlife Resources
  - State Lab
  - Department of Health -Epidemiology
  - DEQ
    - DWQ Monitoring Crew
    - DERR & DSHW Toxicologists
    - DWQ Data Review & Analysis
    - DEQ Internal Workgroup
- 